



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/445,112	02/17/2000	HEINRICH JURGENSEN	P99.2405	9473

7590 04/24/2002

Schiff Hardin & Waite
Patent Department
7100 Sears Tower
Chicago, IL 60606-6473

EXAMINER

FLORES RUIZ, DELMA R

ART UNIT PAPER NUMBER

2828

DATE MAILED: 04/24/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/445,112

Applicant(s)

JURGENSEN, HEINRICH

Examiner

Delma R. Flores Ruiz

Art Unit

2828

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 9-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 9-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 9 – 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Sckiguchi (6,272,155).

Art Unit: 2828

Regarding claims 9 Sckiguchi discloses a method for reducing pump light in an exit of a fiber laser formed of a fiber core surrounded by an inner fiber portion which in turn is surrounded by a sheath, comprising the step of: providing a last section of the fiber laser preceding a light exit for laser light thereof so that at least a portion of the sheath is not provided (Column 3, lines 59 - 67 and Column 4, lines 1 - 19).

Regarding claim 10 Sckiguchi discloses the step of at least partially stripping said last section of said fiber laser of said sheath (Column 3, lines 59 - 67 and Column 4, lines 1 - 19).

Regarding claim 11 the sheath is entirely stripped away at said last section (Column 3, lines 59 - 67 and Column 4, lines 1 - 19).

Regarding claim 12 Sckiguchi discloses during manufacture said last section of said fiber laser has only at least a part of sheath provided thereon (Column 3, lines 59 - 67 and Column 4, lines 1 - 19).

Regarding claim 13 Sckiguchi discloses during manufacture said last section has no sheath provided thereon all (Column 3, lines 59 - 67 and Column 4, lines 1 - 19).

Regarding claim 14 Sckiguchi discloses the step of providing said sheath such that a diameter thereof tapers in wedge-like fashion toward said light exit on a region of said last section (Column 1, lines 31 – 41 and Column 2, lines 9 – 17).

Regarding claim 15 Sckiguchi discloses the step of removing at least the portion of said sheath at said laser section by etching (Column 3, lines 59 - 67 and Column 4, lines 1 – 19).

Regarding claim 16 Sckiguchi discloses a fiber laser comprising; a fiber core surrounded by an inner fiber portion which in turn is surrounded by an outer sheath; and at last section of the fiber laser leading to a light exit for laser light said sheath being at least partially removed (Column 3, lines 59 - 67 and Column 4, lines 1 – 19).

Regarding claim 17 Sckiguchi discloses the sheath at said last section entirely removed (Column 3, lines 59 - 67 and Column 4, lines 1 – 19).

Regarding claim 18 Sckiguchi discloses a region of said last section said sheath tapers in wedge-like fashion toward said light exit (Column 3, lines 59 - 67 and Column 4, lines 1 – 19).

Art Unit: 2828

Regarding claim 19 Sckiguchi discloses last section said sheath is removed completely and an outer portion of said inner fiber portion is roughened where said sheath is completely removed leading to said laser light exit (Column 3, lines 59 - 67 and Column 4, lines 1 - 19).

Regarding claim 20 Sckiguchi discloses a method for reducing pump light in an exit of a fiber laser formed of a fiber system surrounded by a sheath, comprising the step of: providing a last section of the fiber laser preceding a light exit for laser light thereof so that at least a portion of the sheath is not provided thereat (Column 3, lines 59 - 67 and Column 4, lines 1 - 19).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (703) 308-6238. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Art Unit: 2828

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3431.



Delma R. Flores Ruiz
Examiner
Art Unit 2828



Paul Ip
Supervisor Patent Examiner
Art Unit 2828

Drfr
April 9, 2002